



Handwritten initials "JRW" in the top right corner.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants : Yutaka MURAKAMI et al. Group Art Unit : 2611  
Appl. No. : 10/827,445 Examiner : J. K. PATEL  
Filed : April 20, 2004 Confirmation No. : 2729  
For : TRANSMISSION APPARATUS, RECEPTION APPARATUS  
AND DIGITAL RADIO COMMUNICATION METHOD

**SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT**

Commissioner for Patents  
U.S. Patent and Trademark Office  
Customer Service Window, Mail Stop AMENDMENT  
Randolph Building  
401 Dulany Street  
Alexandria, VA 22314

Sir :

In accordance with the duty of disclosure under 37 C.F.R. §1.56 and §§1.97-1.98 and supplemental to the Information Disclosure Statement that was filed on August 9, 2004, Applicants hereby bring to the attention of the Examiner a European Search Report dated June 22, 2006, with respect to patent family member European Patent Application No. 00116027.4-2223, in which the following documents were cited:

- (1) European Patent Application Publication No. EP 0 734 132, along with patent family member U.S. Patent No. 5,771,224 to SEKI et al., which issued on June 23, 1998.
- (2) U.S. Patent No. 4,899,367 to SAMPEI, which issued on February 6, 1990.
- (3) KUO et al., "Design for Pilot-Symbol-Assisted Burst-Mode Communications with Fading and Frequency Uncertainty," International Journal of Wireless

Information Networks, Plenum Press, New York, NY, U.S., vol. 1, no. 4, October 1994, pages 239-252.

- (4) KUO et al., "User slot design and performance analysis for burst mode communications with fading and frequency uncertainty," Proceedings of the Global Telecommunications Conference (GLOBECOM), San Francisco, Nov. 28 – Dec. 2, 1994, New York, IEEE, U.S., vol. 1, November 28, 1994, pages 24-28.
- (5) GANSMAN et al., "Frame Synchronization for PSAM on Rayleigh Fading Channels," Conference Record of the ASILOMAR Conference on Circuits, Systems and Computers, vol. 1, October 30, 1995, pages 260-264.

The relevance of these documents, as ascertained by the European Examiner, are set forth in the European Search Report.

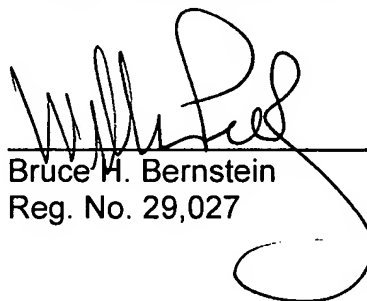
Further to 37 C.F.R. §1.98 (a)(2)(ii), copies of the U.S. patents are not enclosed herewith. However, if any copy is needed, the Examiner is respectfully requested to contact the undersigned.

Applicants respectfully request that the Examiner consider the above material and cite the same. Copies of above-noted documents, except the U.S. patents, are attached hereto, and all of the above-noted documents are listed on an attached Form PTO-1449. A copy of the European Search Report is also attached hereto. The Examiner is requested to initial the appropriate spaces on the attached Form, and to return a copy of the completed Form to Applicants with the next official communication in the present application.

Applicants note that an Office Action on the merits has not issued in the present application, and thus no fee is believed necessary to ensure consideration of the submitted material. However, if an Office Action on the merits has issued and is crossing this statement in the mail, Applicants hereby certify that each item of information contained in the Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the Information Disclosure Statement, and thus no fee is required to ensure consideration of the submitted material.

Should the Examiner have any questions, the Examiner is invited to contact the undersigned at the below-listed telephone number.

Respectfully Submitted,  
Yutaka MURAKAMI et al.

A handwritten signature in black ink, appearing to read 'Bruce H. Bernstein', is written over a horizontal line. The signature is stylized with a large, looping 'B' and 'S'.

William Pieprz  
Reg. No. 33,630

Bruce H. Bernstein  
Reg. No. 29,027

August 7, 2006  
GREENBLUM & BERNSTEIN, P.L.C.  
1950 Roland Clarke Place  
Reston, VA 20191  
(703) 716-1191

FORM PTO-1449	U.S. Department of Commerce Patent and Trademark Office	Atty. Docket No. P25112	Application No. 10/827,445
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> (Use several sheets if necessary)		Applicant Yutaka MURAKAMI et al.	
		Filing Date April 20, 2004	Group 2611

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	5 7 7 1 2 2 4	06/23/98	SEKI et al.			
	4 8 9 9 3 6 7	02/06/90	SAMPEI			

## FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES      NO
0 7 3 4 1 3 2	09/25/96	E.P.O			

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

1	KUO et al., "Design for Pilot-Symbol-Assisted Burst-Mode Communications with Fading and Frequency Uncertainty," International Journal of Wireless Information Networks, Plenum Press, New York, NY, U.S., vol. 1, no. 4, October 1994, pages 239-252.
2	KUO et al., "User slot design and performance analysis for burst mode communications with fading and frequency uncertainty," Proceedings of the Global Telecommunications Conference (GLOBECOM), San Francisco, Nov. 28 - Dec. 2, 1994, New York, IEEE, U.S., vol. 1, November 28, 1994, pages 24-28.
3	GANSMAN et al., "Frame Synchronization for PSAM on Rayleigh Fading Channels," Conference Record of the ASILOMAR Conference on Circuits, Systems and Computers, vol. 1, October 30, 1995, pages 260-264.

EXAMINER

DATE CONSIDERED

\*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.